PUBLICATION NUMBER : 58150040
PUBLICATION DATE : 06-09-83

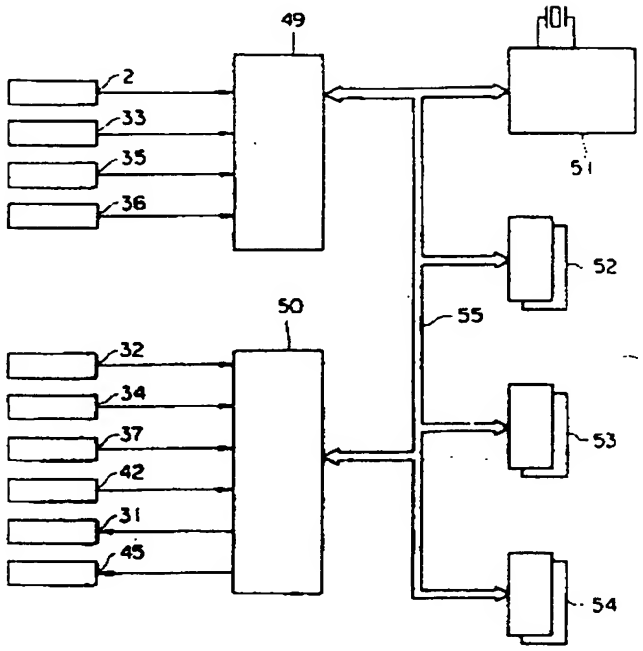
APPLICATION DATE : 03-03-82
APPLICATION NUMBER : 57032309

APPLICANT : TOYOTA MOTOR CORP;

INVENTOR : ISOBE TOSHIAKI;

INT.CL. : F02D 5/00 F02D 23/00

TITLE : CALCULATING METHOD OF BASIC FUEL INJECTION QUANTITY IN ELECTRONICALLY CONTROLLED FUEL INJECTION ENGINE WITH SUPERCHARGER



ABSTRACT : PURPOSE: To secure an optimum basic fuel injection quantity at all times, by having the basic fuel injection quantity commensurate to a suction pipe pressure below the atmospheric pressure stored in a map, while calculating it with an interpolation or extrapolation from map data when the suction pipe pressure is either below or above the atmospheric pressure.

CONSTITUTION: This calculating method is as follows; a basic fuel injection quantity is read out of a read-only memory 52 as a function of a suction pipe pressure from a suction pipe pressure sensor 33 at a central processing unit 51 while the basic fuel injection quantity is compensated by the feedback signal of an air-fuel ratio sensor 32 and the output of a water temperature sensor 35, etc., and thereby a fuel injection valve 31 is controlled. In this case, the basic fuel injection quantity commensurate to the suction pipe pressure below the atmospheric pressure is stored into the read-only memory 52 as a map in advance. And, in case the suction pipe pressure is below the atmospheric pressure, the basic fuel injection quantity is calculated by an interpolation from map data. Likewise, in case the suction pipe pressure is above the atmospheric pressure, it is calculated by an extrapolation from map data.